

HW 3.4 Discuss / Figure stuff out.

35

9

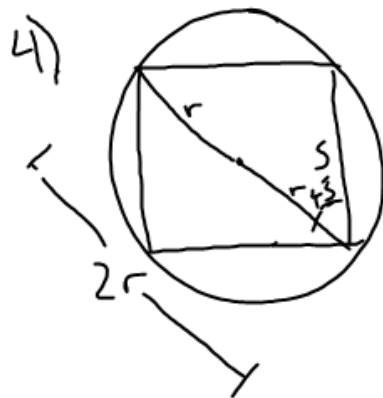
38

4

25

23

36



$2rs?$

$$\cos 45 = \frac{s}{2r}$$

$$\frac{\sqrt{2}}{2} = \frac{s}{2r}$$

$$s = \sqrt{2}r$$

$$A_{sq} = (\sqrt{2}r)^2 = 2r^2$$

23) $s = t^3 - 6t^2 + 9t$

$$\frac{ds}{dt} = 3t^2 - 12t + 9$$

$$0 = 3t^2 - 12t + 9$$

$$= 3(t^2 - 4t + 3)$$

6, -6 $\xrightarrow{\text{plug into}} 3(t-1)(t-3)$
 $\leftarrow t = 1, 3$

antiderivative

$$\frac{dy}{dx} = 6x^2$$



$$y = 2x^3 + C$$

$$C = 0$$
$$C = 1,001$$